

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :
:
Samuel I. STUPP et al. :
:
Serial No. 10/668,672 : Group Art Unit: 1645
:
Filed: September 23, 2003 : Examiner: Unknown

For: SELF-ASSEMBLED PEPTIDE-AMPHIPHILES & SELF-ASSEMBLED PEPTIDE
NANOFIBER NETWORKS PRESENTING MULTIPLE SIGNALS

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

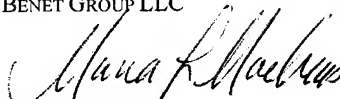
In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO/SB/08a. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Copies of any cited U.S. Patents, U.S. Patent Publications, and PCT Publications are not being submitted in accordance with 37 CFR 1.98(a)(2)(i).

In accordance with 37 C.F.R. § 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search had been made or that information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item, and Applicant reserves the right to prove that the date of publication is in fact different.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No fee is believed to be required.

Respectfully submitted,

BENET GROUP LLC

A handwritten signature in black ink, appearing to read "Maria L. Maebius", written in a cursive style.

Maria L. Maebius
Registration No. 42,967

c/o Intellevate
P.O. Box 52050
Minneapolis, MN 55402
Tel. 202.253.7199
Fax 612-677-3572

Date: 12 APRIL 2007

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10668672
	Filing Date		2003-09-23
	First Named Inventor	Samuel I. STUPP et al.	
	Art Unit	1645	
	Examiner Name	Unknown	
	Attorney Docket Number	NANO 105 US2 (NU 22074)	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5871767		1999-02-16	Dionne et al.	
	2	6156321		2000-12-05	Thorpe et al.	
	3	6265539	B1	2001-07-24	Arlinghaus	
	4	6270765	B1	2001-08-07	Deo et al.	
	5	6458924	B2	2002-10-01	Knudsen et al.	
	6	6548048	B1	2003-04-15	Cuthbertson et al.	
	7	6855329	B1	2005-02-15	Shakesheff et al.	
If you wish to add additional U.S. Patent citation information please click the Add button.						
U.S.PATENT APPLICATION PUBLICATIONS						

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10668672
Filing Date	2003-09-23
First Named Inventor	Samuel I. STUPP et al.
Art Unit	1645
Examiner Name	Unknown
Attorney Docket Number	NANO 105 US2 (NU 22074)

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20030092672	A1	2003-05-15	Darcy et al.	
	2	20050214257	A1	2005-09-29	Zhao et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	99/36107	WO		1999-07-22	Shakesheff et al.		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	Nomizu, Motoyoshi, Atsushi Utani, Norio Shiraishi, Maura C. Kibbey, Yoshihiko Yamada, and Peter P. Roller. July 15, 1992. "The All-D-Configuration Segment Containing the IKVAV Sequence of Laminin A Chain Has Similar Activities to the All-L-Peptide in Vitro and in Vivo." The Journal of Biological Chemistry. Vol. 267, No. 20, pp. 14118-14121.	<input type="checkbox"/>
	2	Margomenou-Leonidopoulou, G. 1994. "Thermotropic Mesophases of Ionic Amphiphiles. II. Ionic Amphiphiles in Aqueous Media." Journal of Thermal Analysis. Vol. 42, pp. 1041-1061.	<input type="checkbox"/>
	3	Rappolt, Michael and Gert Rapp. 1996. "Structure of the Stable and Metastable Ripple Phase of Dipalmitoylphosphatidylcholine." Eur. Biophys. J. Vol. 24, pp. 381-386.	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10668672
Filing Date	2003-09-23
First Named Inventor	Samuel I. STUPP et al.
Art Unit	1645
Examiner Name	Unknown
Attorney Docket Number	NANO 105 US2 (NU 22074)

4	Goveas, J. L. and S. T. Milner. 1997. "Dynamics of the Lamellar—Cylindrical Transition in Weakly Segregated Diblock Copolymer Melts." <i>Macromolecules</i> . Vol. 30, No. 9, pp. 2605-2612.	<input type="checkbox"/>
5	Munson, John B. and Stephen B. McMahon. 1997. "Effects of GDNF on Axotomized Sensory and Motor Neurons in Adult Rats." <i>European Journal of Neuroscience</i> . Vol. 9, pp. 1126-1129.	<input type="checkbox"/>
6	Fernandez, A., M. A. Alsina, I. Haro, R. Galantai, and F. Reig. 1998. "Synthesis and Physicochemical Characterization of Cyclic Laminin Related Peptides." <i>Langmuir</i> . Vol. 14, No. 13, pp. 3625-3630.	<input type="checkbox"/>
7	Yagi, Nobuhiro, Yoshikatsu Ogawa, Masato Kodaka, Tomoko Okada, Takenori Tomohiro, Takeo Konakahara, and Hiroaki Okuno. 1999. "A Surface-Modified Functional Liposome Capable of Binding to Cell Membranes." <i>Chem. Commun.</i> Pp. 1687-1688.	<input type="checkbox"/>
8	Luo, Yi and Glenn D. Prestwich. 2001. "Novel Biomaterials for Drug Delivery." <i>Expert Opin. Ther. Patents</i> . Vol. 11, No. 9, pp. 1395-1410.	<input type="checkbox"/>
9	Marchi-Artzner, Valerie, Barbara Lorz, Ulrike Hellerer, Martin Kantlehner, Horst Kessler, and Erich Sackmann. 2001. "Selective Adhesion of Endothelial Cells to Artificial Membranes with a Synthetic RGD-Lipopeptide." <i>Chem. Eur. J.</i> Vol. 7, No. 5, pp. 1095-1101.	<input type="checkbox"/>
10	Blight, Andrew R. November 2002. "Miracles and Molecules—Progress in Spinal Cord Repair." <i>Nature Neuroscience Supplement</i> . Vol. 5, pp. 1051-1054.	<input type="checkbox"/>
11	Rodger, Alison, Jascindra Rajendra, Rachel Marrington, Malin Ardhhammar, Bengt Norden, Jonathan D. Hirst, Andrew T. B. Gilbert, Timothy R. Dafforn, David J. Halsall, Cheryl A. Woolhead, Colin Robinson, Teresa J. T. Pinheiro, Jurate Kazlauskaitė, Mark Seymour, Nivvis Perez, and Michael J. Hannon. 2002. "Flow Oriented Linear Dichroism to Probe Protein Orientation in Membrane Environments." <i>Phys. Chem. Chem. Phys.</i> Vol. 4, pp. 4051-4057.	<input type="checkbox"/>
12	Silva, G. A., K. L. Kehl, K. L. Niece, and S. I. Stupp. May 4, 2003. "Nanoengineered Peptide Amphiphile Network for Photoreceptor Replacement in Degenerative Retinal Disorders." <i>Investigative Ophthalmology & Visual Science</i> . Abstract No. 492 from Annual Meeting of the Association for Research in Vision and Ophthalmology.	<input type="checkbox"/>
13	Brandenburg, Klaus, Frauke Wagner, Mareike Muller, Holger Heine, Jorg Andra, Michel H. J. Koch, Ulrich Zahringer, and Ulrich Seydel. 2003. "Physicochemical Characterization and Biological Activity of a Glycoglycerolipid from <i>Mycoplasma fermentans</i> ." <i>Eur. J. Biochem.</i> Vol. 270, pp. 3271-3279.	<input type="checkbox"/>
14	Czeisler, C., V. M. Tysseling-Mattlace, G. A. Silva, S. I. Stupp, and J. A. Kessler. 2003. "Behavioral Improvement and Increased Survival Rate after Treatment with a Self Assembling Gel in a Rat Model of Spinal Cord Injury." 2003 Abstract Viewer/Itinerary Planner. Program No. 245.22. Washington, DC: Society for Neuroscience. Printed February 5, 2007. Page 1. http://sfn.scholarone.com/itin2003/main.html?new_page_id=126&abstract_id=1554...	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10668672
Filing Date	2003-09-23
First Named Inventor	Samuel I. STUPP et al.
Art Unit	1645
Examiner Name	Unknown
Attorney Docket Number	NANO 105 US2 (NU 22074)

15	Schmidt, Christine E. and Jennie Baier Leach. 2003. "Neural Tissue Engineering: Strategies for Repair and Regeneration." Annu. Rev. Biomed. Eng. Vol. 5, pp. 293-347.	<input type="checkbox"/>
16	t' Hart, Bert A. and Sandra Amor. 2003. "The Use of Animal Models to Investigate the Pathogenesis of Neuroinflammatory Disorders of the Central Nervous System." Current Opinion in Neurology. Vol. 16, pp. 375-383.	<input type="checkbox"/>
17	Beniash, Ella, Jeffery D. Hartgerink, Hannah Storrie, John C. Stendahl, and Samuel I. Stupp. 2005. "Self-Assembling Peptide Amphiphile Nanofiber Matrices for Cell Entrapment." Acta Biomaterialia. Vol. 1, pp. 387-397.	<input type="checkbox"/>
18	Hoke, Ahmet. August 2006. "Mechanisms of Disease: What Factors Limit the Success of Peripheral Nerve Regeneration in Humans?" Nature Clinical Practice Neurology. Vol. 2, No. 8, pp. 448-454.	<input type="checkbox"/>
19	Kokkoli, Efrosini, Anastasia Mardilovich, Alison Wedekind, Emilie L. Rexeisen, Ashish Garg, and Jennifer A. Craig. 2006. "Self-Assembly and Applications of Biomimetic and Bioactive Peptide-Amphiphiles." Soft Matter. Vol. 2, pp. 1015-1024.	<input type="checkbox"/>
20	The LabRat.com. 2007, updated. Hank's Buffered Salt Solution (HBSS) Recipe. http://www.thelabrat.com/protocolsHanks.shtml . Printed January 19, 2007. Pages 1-2.	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.